QC ABSTRACT

Nameof Work: "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Tests Result
1	1:3:6	137.92 Cum	1	1	Pass
2	M30	261.21 Cum	9	9	Pass
3	WMM	98.53 Cum	-	-	Pass
		Gradation	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Atterberg Limits	1	1	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BRM/W.No.04/2024-25 Date: 18.04.2024

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
AGENCY	:	**Sri B.R.Mohan ,** Contractor, Bangalore.
NAME OF THE WORK	:	"Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		March - 2024
DATE OF TESTING		16.04.2024 to 18.04.2024
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	129 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	348 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.50 %	-

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Job No.: CACE/BBMP/BRM/W.No.04/2024-25

Date : 18.04.2024

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri B.R.Mohan , Contractor, Bangalore.**

Name of Work : "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

Date of Testing : 18.04.2024

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms . **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	128	12.80	21.30	78.7	75-100
1.18	175	17.50	38.80	61.2	55-90
600 Micron	167	16.70	55.50	44.5	35-59
300 Micron	242	24.20	79.70	20.3	8-30
150 Micron	145	14.50	94.20	5.8	0-10

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Job No.: CACE/BBMP/BRM/W.No.04/2024-25

Date : 18.04.2024

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri B.R.Mohan , Contractor, Bangalore.**

Name of Work : "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

Date of Testing : 18.04.2024

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	185	3.7	3.7	96.3	95-100
10	2519	50.4	54.1	45.9	25-55
4.75	1948	39.0	93.0	7.0	0-10

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Job No.: CACE/BBMP/BRM/W.No.04/2024-25

Date : 03.04.2024

ATTERBERG LIMITS TEST FOR WMM

Client **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency **Sri B.R.Mohan , Contractor, Bangalore.**

Name of Work "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 01.04.2024 to 03.04.2024

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Date : 03.04.2024

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**Sri B.R.Mohan , Contractor, Bangalore.**
Name of Work	"Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 ,(RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	03.04.2024

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	12.40	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.80	13.00	
	Combined Flakiness & Elongation index	24.90	25.40	

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Date : 03.04.2024

GRADATION FOR WMM

Client: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency: **Sri B.R.Mohan , Contractor, Bangalore.**

Name of Work: "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 03.04.2024

Material Type : Wet Mix Macadam

Oven Dry.Wt, gram 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	177	177	1.8	98.2	95-100
22.4	2573	2750	27.5	72.5	60-80
11.2	2149	4899	49.0	51.0	40-60
4.75	1859	6758	67.6	32.4	25-40
2.36	1195	7953	79.5	20.5	15-30
0.600	602	8555	85.6	14.5	.8-22
0.075	1104	9659	96.6	3.4	0-5

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Job No.: CACE/BBMP/BRM/W.No.04/2024-25 Date: 06.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2024	06.05.2024	8.131	502.7	22.34
2	29.04.2024	06.05.2024	8.142	505.1	22.45
3	29.04.2024	06.05.2024	8.148	504.8	22.44

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Job No.: CACE/BBMP/BRM/W.No.04/2024-25 Date: 27.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2024	27.05.2024	8.175	702.9	31.24
2	29.04.2024	27.05.2024	8.181	704.8	31.32
3	29.04.2024	27.05.2024	8.198	705.1	31.34

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Job No.: CACE/BBMP/BRM/W.No.04/2024-25 Date: 27.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2024	27.05.2024	8.191	714.7	31.76
2	29.04.2024	27.05.2024	8.196	715.4	31.80
3	29.04.2024	27.05.2024	8.202	716.2	31.83

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2024	27.05.2024	8.194	707.7	31.45
2	29.04.2024	27.05.2024	8.196	708.4	31.48
3	29.04.2024	27.05.2024	8.199	711.9	31.64

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2024	27.05.2024	8.194	711.9	31.64
2	29.04.2024	27.05.2024	8.203	715.3	31.79
3	29.04.2024	27.05.2024	8.207	717.1	31.87

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Job No.: CACE/BBMP/BRM/W.No.04/2024-25

Date: 07.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.04.2024	07.05.2024	8.148	511.9	22.75
2	30.04.2024	07.05.2024	8.154	512.3	22.77
3	30.04.2024	07.05.2024	8.161	518.7	23.05

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೫೬

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BRM/W.No.04/2024-25

Date: 28.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Restoration of BWSSB Cutting portion in LBS Nagara Census Block No 130/1, 130/2& 131/2 in Yelahanka new Town ward No 04", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.04.2024	28.05.2024	8.217	714.4	31.75
2	30.04.2024	28.05.2024	8.222	719.3	31.97
3	30.04.2024	28.05.2024	8.227	720.4	32.02

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.04.2024	07.05.2024	8.150	501.9	22.31
2	30.04.2024	07.05.2024	8.156	502.8	22.35
3	30.04.2024	07.05.2024	8.167	504.3	22.41

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.04.2024	07.05.2024	8.131	507.2	22.54
2	30.04.2024	07.05.2024	8.136	513.7	22.83
3	30.04.2024	07.05.2024	8.142	514.7	22.88

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Job No.: CACE/BBMP/BRM/W.No.04/2024-25

Date: 28.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.04.2024	28.05.2024	8.189	706.2	31.39
2	30.04.2024	28.05.2024	8.195	708.4	31.48
3	30.04.2024	28.05.2024	8.199	710.2	31.56

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ಜ.ಪಾ.ಕ. ಬೆಂಗಳೂರು-106

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Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.04.2024	07.05.2024	8.150	509.7	22.65
2	30.04.2024	07.05.2024	8.159	512.1	22.76
3	30.04.2024	07.05.2024	8.163	515.9	22.93

Note:

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Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.04.2024	28.05.2024	8.209	704.3	31.30
2	30.04.2024	28.05.2024	8.203	707.7	31.45
3	30.04.2024	28.05.2024	8.217	714.8	31.77

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